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| First Inventor: | Frank et al. |
|-----------------|--------------|

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|--------|---|-----|
| Title: | LINEAR MINIMUM MEAN SQUARE ERROR EQUALIZATION WITH INTERFERENCE CANCELLATION FOR MOBILE COMMUNICATION FORWARD LINKS UTILIZING ORTHOGONAL CODES COVERED BY LONG PSEUDORANDOM SPREADING CODES | PTO |
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| Express Mail Label No.: | ET194827158US |
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(Only for new nonprovisional applications under 37 CFR 1.53(b))

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

1. ☒ Fee Transmittal Form in duplicate  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status  
See 37 CFR 1.27
3. ☒ Specification                      Total Pages   
(preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R&D
    - Reference to sequence listing, a table,
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure

4. ☒ Drawing(s) Total Sheets
5. Oath or Declaration
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (for continuation/ divisional with Box 18 completed)
- i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet under 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence (if applicable, all necessary)
  - a. ☐ Computer Readable Form (CFR)
  - b. ☐ Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-4 (2 copies);
    - ii. ☐ or paper
  - c. ☐ Statements verifying identity of above copies

### ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) ☐ Power of Attorney Statement (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ IDS ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
15. ☐ Certified Copy of Priority Document
16. ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. IF A CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) ☐ Prior App[.], No.

Prior Appl. information:      Examiner:      Group/Art Unit:

For CONTINUATION OR DIVISIONAL APPS only The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

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22917

|           |                                 |  |           |  |              |                  |    |     |                 |  |       |
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| SIGNATURE | <i>Lalita P. Williams</i>       |  |           |  |              | Date             |    |     | August 20, 2001 |  |       |

CE08239R

11040 U.S. PTO  
09/933365

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|--|---------------------|----------------------|-----------------|
| PTO/SB/17 (11-00)<br><br><div style="text-align: center; font-weight: bold; font-size: 1.2em;">FEE<br/>TRANSMITTAL</div> <p style="text-align: center; font-size: 0.8em;">Patent fees are subject to annual revision</p> |                     | Complete if Known    |                 |
|  |                     | Application Number   |                 |
|  |                     | Filing Date          | August 20, 2001 |
|  |                     | First Named Inventor | Colin D. Frank  |
|  |                     | Examiner Name        |                 |
|  |                     | Group Art Unit       |                 |
| TOTAL AMOUNT OF PAYMENT  | (\$) <b>1230.00</b> | Attorney Docket No.  | CE08239R        |

  

| METHOD OF PAYMENT  | FEE CALCULATION (continued)  |                 |  |  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
|--|--|-----------------|--|--|-----------------|---|----------|---|----------|----------|--------------------|--------|-----|-----|-------------------------------------|-----|-------------------|-----|-----|-------------------------------------|-----|-----|------------------|-----|---------------------------|-----|------|-----|--------------------|---|-----|------|-----|------|--|-----|--------------|--|---------|--|-----|----------------|--|----|---|--------------------|---|--------|---|---|----------------|--|-----|---|--|-----|------|-----|-----|---|---|------|--|----------------|--|----------------|-----------------|-----------------|-----|------------------|-----|-----|------------------------|-----|--|-----|-----|-----------------------------------|-----|--------------------------|-----|------|---------------------------------------|------|---|-----|-----|--|-----|----------------------------------|-----|------|--|---|------------------------------------|-----|------|-----|-----|--------------------------------|-----|-----|-----|-----|------------------|-----|-----|-----|-----|-----------------|-----|-----|-----|-----|-------------------------------|-----|----|-----|----|-------------------------------------|-----|-----|-----|-----|-------------------|-----|----|-----|----|--|-----|-----|-----|-----|---|-----|-----|-----|-----|--|-----|-----|-----|-----|---|-----|-----|-----|-----|---|
| <p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to.</p> <p>Deposit Account Number <span style="border: 1px solid black; padding: 2px;">13-4772</span></p> <p>Deposit Account Name <span style="border: 1px solid black; padding: 2px;">Motorola, Inc.</span></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p> <p>2. <input type="checkbox"/> Payment Enclosed:</p> <p><input type="checkbox"/> Check    <input type="checkbox"/> Credit Card    <input type="checkbox"/> Money Order    <input type="checkbox"/> Other</p>   | <p><b>3. ADDITIONAL FEES</b></p> <table style="width: 100%; font-size: 0.7em;"> <thead> <tr> <th colspan="2">Large Entity</th> <th colspan="2">Small Entity</th> <th rowspan="2">Fee Description</th> </tr> <tr> <th>Fee Code</th> <th>Fee (\$)</th> <th>Fee Code</th> <th>Fee (\$)</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late Provisional filing</td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td></tr> <tr><td>147</td><td>2520</td><td>147</td><td>2520</td><td>For filing a request for ex parte Reexamination</td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td></tr> <tr><td>113</td><td>1840*</td><td>113</td><td>1840*</td><td>Requesting publication of SIR after Examiner action</td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for reply within second month</td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for reply within third month</td></tr> <tr><td>118</td><td>1390</td><td>218</td><td>695</td><td>Extension for reply within fourth month</td></tr> <tr><td>128</td><td>1890</td><td>228</td><td>945</td><td>Extension for reply within fifth month</td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td></tr> <tr><td>138</td><td>1510</td><td>138</td><td>1510</td><td>Petition to institute a public use proceeding</td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td></tr> <tr><td>141</td><td>1240</td><td>241</td><td>620</td><td>Petition to revive - unintentional</td></tr> <tr><td>142</td><td>1240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17(a)</td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of IDS</td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td></tr> </tbody> </table> <p>Other fee (specify) _____</p> | Large Entity    |  | Small Entity   |                 | Fee Description   | Fee Code | Fee (\$)  | Fee Code | Fee (\$) | 105                | 130    | 205 | 65  | Surcharge - late filing fee or oath | 127 | 50                | 227 | 25  | Surcharge - late Provisional filing | 139 | 130 | 139              | 130 | Non-English specification | 147 | 2520 | 147 | 2520               | For filing a request for ex parte Reexamination | 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action | 113 | 1840*        | 113  | 1840*   | Requesting publication of SIR after Examiner action            | 115 | 110            | 215  | 55 | Extension for reply within first month                          | 116                | 390   | 216    | 195   | Extension for reply within second month | 117            | 890  | 217 | 445   | Extension for reply within third month | 118 | 1390 | 218 | 695 | Extension for reply within fourth month | 128   | 1890 | 228  | 945            | Extension for reply within fifth month | 119            | 310             | 219             | 155 | Notice of Appeal | 120 | 310 | 220                    | 155 | Filing a brief in support of an appeal | 121 | 270 | 221                               | 135 | Request for oral hearing | 138 | 1510 | 138                                   | 1510 | Petition to institute a public use proceeding | 140 | 110 | 240  | 55  | Petition to revive - unavoidable | 141 | 1240 | 241  | 620   | Petition to revive - unintentional | 142 | 1240 | 242 | 620 | Utility issue fee (or reissue) | 143 | 440 | 243 | 220 | Design issue fee | 144 | 600 | 244 | 300 | Plant issue fee | 122 | 130 | 122 | 130 | Petitions to the Commissioner | 123 | 50 | 123 | 50 | Processing fee under 37 CFR 1.17(a) | 126 | 180 | 126 | 180 | Submission of IDS | 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) | 146 | 710 | 246 | 355 | Filing a submission after final rejection (37 CFR § 1.129(a)) | 149 | 710 | 249 | 355 | For each additional invention to be examined (37 CFR § 1.129(b)) | 179 | 710 | 279 | 355 | Request for Continued Examination (RCE) | 169 | 900 | 169 | 900 | Request for expedited examination of a design application |
| Large Entity   |  | Small Entity    |  | Fee Description  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Fee Code   | Fee (\$)   | Fee Code        | Fee (\$)   |  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 105  | 130  | 205             | 65   | Surcharge - late filing fee or oath  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 127  | 50   | 227             | 25   | Surcharge - late Provisional filing  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 139  | 130  | 139             | 130  | Non-English specification  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 147  | 2520   | 147             | 2520   | For filing a request for ex parte Reexamination                            |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 112  | 920*   | 112             | 920*   | Requesting publication of SIR prior to Examiner action                     |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 113  | 1840*  | 113             | 1840*  | Requesting publication of SIR after Examiner action                        |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 115  | 110  | 215             | 55   | Extension for reply within first month                                     |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 116  | 390  | 216             | 195  | Extension for reply within second month                                    |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 117  | 890  | 217             | 445  | Extension for reply within third month                                     |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 118  | 1390   | 218             | 695  | Extension for reply within fourth month                                    |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 128  | 1890   | 228             | 945  | Extension for reply within fifth month                                     |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 119  | 310  | 219             | 155  | Notice of Appeal   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 120  | 310  | 220             | 155  | Filing a brief in support of an appeal                                     |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 121  | 270  | 221             | 135  | Request for oral hearing   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 138  | 1510   | 138             | 1510   | Petition to institute a public use proceeding                              |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 140  | 110  | 240             | 55   | Petition to revive - unavoidable   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 141  | 1240   | 241             | 620  | Petition to revive - unintentional   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 142  | 1240   | 242             | 620  | Utility issue fee (or reissue)   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 143  | 440  | 243             | 220  | Design issue fee   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 144  | 600  | 244             | 300  | Plant issue fee  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 122  | 130  | 122             | 130  | Petitions to the Commissioner  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 123  | 50   | 123             | 50   | Processing fee under 37 CFR 1.17(a)  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 126  | 180  | 126             | 180  | Submission of IDS  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 581  | 40   | 581             | 40   | Recording each patent assignment per property (times number of properties) |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 146  | 710  | 246             | 355  | Filing a submission after final rejection (37 CFR § 1.129(a))              |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 149  | 710  | 249             | 355  | For each additional invention to be examined (37 CFR § 1.129(b))           |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 179  | 710  | 279             | 355  | Request for Continued Examination (RCE)                                    |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 169  | 900  | 169             | 900  | Request for expedited examination of a design application                  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| <p><b>1. BASIC FILING FEE</b></p> <table style="width: 100%; font-size: 0.7em;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>710</td><td>201</td><td>365</td><td>Utility filing fee</td><td>710.00</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>490</td><td>207</td><td>245</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>710</td><td>208</td><td>355</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> </tbody> </table> <p style="text-align: right;"><b>SUBTOTAL (1)</b>    <span style="border: 1px solid black; padding: 2px;">(\$)<b>710.00</b></span></p> <p><b>2. EXTRA CLAIM FEES</b></p> <table style="width: 100%; font-size: 0.7em;"> <tr> <td>Total Claims</td> <td><span style="border: 1px solid black; padding: 2px;">40</span></td> <td>-20** =</td> <td><span style="border: 1px solid black; padding: 2px;">20</span></td> <td>X</td> <td>Fee from below</td> <td><span style="border: 1px solid black; padding: 2px;">18</span></td> <td>=</td> <td><span style="border: 1px solid black; padding: 2px;">360</span></td> </tr> <tr> <td>Independent Claims</td> <td><span style="border: 1px solid black; padding: 2px;">5</span></td> <td>-3** =</td> <td><span style="border: 1px solid black; padding: 2px;">2</span></td> <td>X</td> <td>Fee from below</td> <td><span style="border: 1px solid black; padding: 2px;">80</span></td> <td>=</td> <td><span style="border: 1px solid black; padding: 2px;">160</span></td> </tr> <tr> <td colspan="5">Multiple Dependent</td> <td></td> <td><span style="border: 1px solid black; padding: 2px;">270</span></td> <td>=</td> <td><span style="border: 1px solid black; padding: 2px;"></span></td> </tr> </table> <table style="width: 100%; font-size: 0.7em;"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim, if not paid</td></tr> <tr><td>109</td><td>80</td><td>209</td><td>40</td><td>** Reissue independent claims Over original patent</td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td></tr> </tbody> </table> <p style="text-align: right;"><b>SUBTOTAL (2)</b>    <span style="border: 1px solid black; padding: 2px;">(\$)<b>520.00</b></span></p> <p><small>**OR NUMBER PREVIOUSLY PAID, IF GREATER For Reissues, see above</small></p> | Large Fee Code   | Entity Fee (\$) | Small Fee Code   | Entity Fee (\$)  | Fee Description | Fee Paid  | 101      | 710   | 201      | 365      | Utility filing fee | 710.00 | 106 | 320 | 206                                 | 160 | Design filing fee |     | 107 | 490                                 | 207 | 245 | Plant filing fee |     | 108                       | 710 | 208  | 355 | Reissue filing fee |   | 114 | 150  | 214 | 75   | Provisional filing fee                                 |     | Total Claims | <span style="border: 1px solid black; padding: 2px;">40</span> | -20** = | <span style="border: 1px solid black; padding: 2px;">20</span> | X   | Fee from below | <span style="border: 1px solid black; padding: 2px;">18</span> | =  | <span style="border: 1px solid black; padding: 2px;">360</span> | Independent Claims | <span style="border: 1px solid black; padding: 2px;">5</span> | -3** = | <span style="border: 1px solid black; padding: 2px;">2</span> | X                                       | Fee from below | <span style="border: 1px solid black; padding: 2px;">80</span> | =   | <span style="border: 1px solid black; padding: 2px;">160</span> | Multiple Dependent                     |     |      |     |     |   | <span style="border: 1px solid black; padding: 2px;">270</span> | =    | <span style="border: 1px solid black; padding: 2px;"></span> | Large Fee Code | Entity Fee (\$)                        | Small Fee Code | Entity Fee (\$) | Fee Description | 103 | 18               | 203 | 9   | Claims in excess of 20 | 102 | 80                                     | 202 | 40  | Independent claims in excess of 3 | 104 | 270                      | 204 | 135  | Multiple dependent claim, if not paid | 109  | 80  | 209 | 40  | ** Reissue independent claims Over original patent | 110 | 18                               | 210 | 9    | ** Reissue claims in excess of 20 and over original patent | <p><b>SUBTOTAL (3)</b>    <span style="border: 1px solid black; padding: 2px;">(\$)<b>0.00</b></span></p> <p>* Reduced by Basic Filing Fee paid</p> |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Large Fee Code   | Entity Fee (\$)  | Small Fee Code  | Entity Fee (\$)  | Fee Description  | Fee Paid        |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 101  | 710  | 201             | 365  | Utility filing fee   | 710.00          |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 106  | 320  | 206             | 160  | Design filing fee  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 107  | 490  | 207             | 245  | Plant filing fee   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 108  | 710  | 208             | 355  | Reissue filing fee   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 114  | 150  | 214             | 75   | Provisional filing fee   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Total Claims   | <span style="border: 1px solid black; padding: 2px;">40</span>   | -20** =         | <span style="border: 1px solid black; padding: 2px;">20</span> | X  | Fee from below  | <span style="border: 1px solid black; padding: 2px;">18</span>  | =        | <span style="border: 1px solid black; padding: 2px;">360</span> |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Independent Claims   | <span style="border: 1px solid black; padding: 2px;">5</span>  | -3** =          | <span style="border: 1px solid black; padding: 2px;">2</span>  | X  | Fee from below  | <span style="border: 1px solid black; padding: 2px;">80</span>  | =        | <span style="border: 1px solid black; padding: 2px;">160</span> |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Multiple Dependent   |  |                 |  |  |                 | <span style="border: 1px solid black; padding: 2px;">270</span> | =        | <span style="border: 1px solid black; padding: 2px;"></span>    |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| Large Fee Code   | Entity Fee (\$)  | Small Fee Code  | Entity Fee (\$)  | Fee Description  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 103  | 18   | 203             | 9  | Claims in excess of 20   |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 102  | 80   | 202             | 40   | Independent claims in excess of 3  |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 104  | 270  | 204             | 135  | Multiple dependent claim, if not paid                                      |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 109  | 80   | 209             | 40   | ** Reissue independent claims Over original patent                         |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |
| 110  | 18   | 210             | 9  | ** Reissue claims in excess of 20 and over original patent                 |                 |   |          |   |          |          |                    |        |     |     |                                     |     |                   |     |     |                                     |     |     |                  |     |                           |     |      |     |                    |   |     |      |     |      |  |     |              |  |         |  |     |                |  |    |   |                    |   |        |   |   |                |  |     |   |  |     |      |     |     |   |   |      |  |                |  |                |                 |                 |     |                  |     |     |                        |     |  |     |     |                                   |     |                          |     |      |                                       |      |   |     |     |  |     |                                  |     |      |  |   |                                    |     |      |     |     |                                |     |     |     |     |                  |     |     |     |     |                 |     |     |     |     |                               |     |    |     |    |                                     |     |     |     |     |                   |     |    |     |    |  |     |     |     |     |   |     |     |     |     |  |     |     |     |     |   |     |     |     |     |   |

  

|                   |                    |                          |                 |
|-------------------|--------------------|--------------------------|-----------------|
| SUBMITTED BY      |                    | Complete (if applicable) |                 |
| Name (Print/Type) | Lalita P. Williams | Registration No.         | 39,427          |
| Signature         |                    | Telephone                | 847-538-5855    |
|                   |                    | Mail Date                | August 20, 2001 |

CE08239R